

AH #25

28 May 1956

MEMORANDUM FOR: THE RECORD

THRU

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SUBJECT

: Visit to NBS

1. Time and Place of Meeting: The meeting was held at NBS 16 May 1956.

2. Attendance: Walter Koidan Sound Section, NBS
William Wildhack OBI, NBS
 TSS, 

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3. Discussion:

a. Ad Hoc #25 -

Mr. Wildhack stated that the program on wall measurement by ultrasonics and microwaves has temporarily come to a standstill. The reason is the acute shortage of personnel at NBS. Mr. Wildhack stated that a full time man would be assigned to this problem on 1 July 1956, the start of their new fiscal year. A technician will be provided to assist the engineer. Also, a microwave specialist will devote 15% of his time to consultant work on this program.

NBS has worked on this problem for a number of months with little or no results being produced. NBS does excellent work, but apparently the personnel shortage and priority work load are so great that much time passes before any concrete results become available for use.

NBS stated that an estimate of 3 months will be required before the peek-a-boo punch system will be ready for delivery. The drawings have been submitted to the shop and NBS is now in the process of making 6 units.

b. Microphone Evaluation Project

NBS has completed the calibrations on the group of six microphones in brass housings, a Shure Brothers microphone No. BA 31004, a Western Electric microphone, type F-1, and two transistorized units made by Edwards, using Shure microphones.

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The response curves are self explanatory, but the following points should be noted. NBS felt that the brass probes were not of the right length and that this accounted for the poor frequency response of these two microphones. NBS was not sure of the power required on the transistorized units, so ran the tests without any external power. An output was obtained for both units, and as can be expected, the response of these units was not good. NBS has now been supplied with the data necessary to conduct tests on these units using external power and the results of these tests will be forwarded upon completion by NBS.

c. The undersigned was shown a report on hearing aids, done by NBS for the Veterans Administration. In this report, NBS evaluated over 50 different types of commercial hearing aids manufactured in the US. NBS could not furnish a copy of the report without a release from the Veterans Administration.

The report entitled "Acoustical Performance of a Group of Hearing Aids" and consists of eight volumes of the following numbers: 4573, 4580, 4583, 4587, 4596, 4662, 4667, 4678.

NBS stated that Dr. Kenneth Johnson, Chief, Audiology and Speech Correction, Department of Medicine and Surgery, Veterans Administration, is the person to see to obtain a copy of this report. The undersigned contacted this Agency's Liaison Office and gave them the above information. They stated that a copy of the report would be obtained and sent to TBS/APD.

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Attachments:

6 Response Curves

Distribution:

NBS Mike File - Orig.

Ad Hoc #25 - 1

AWS - 1

Chrono - 1

AWS/lm